



ECLIPSE®

PROCESSING UNIT II

Owner & Operator's Manual

Model No.	Voltage	Frequency
9494800	120V	50 – 60 Hz
9494801	220-240V	50 – 60 Hz
9494900	100V	50 – 60 Hz

Table of Contents

DESCRIPTION	PAGE
Safety	2
Technical Data	3
Installation Instructions	4
General Operation	5
Maintenance	11
Troubleshooting	15
Product Service	17
Declaration of Conformity	18
Warranty	20

SAFETY:

FOR PROFESSIONAL USE ONLY.

Please read these operating instructions carefully before installing or operating this equipment.

- Use indoors only.
- Never operate the unit in close proximity to combustible materials or place materials on top of the unit.
- The unit must be electrically grounded to a three wire electrical outlet or receptacle. The electrical service provided must be a dedicated line of the proper size according to local electrical codes.
- Unit must be placed in a position that allows the power cord to be easily disconnected from the wall or inlet socket.
- Do not attempt to service the unit until you have read and understand this operation manual.
- Turn off the power switch and disconnect the line cord before attempting to service the unit.
- Do not operate the unit controls with tongs or other tool.
- Do not use solvents or liquid cleaners on the control panel.
- Do not touch the bulbs when the unit door is open.
- Before replacing bulbs, allow the unit to cool to room temperature to avoid burns.
- Do not cover the top of the unit or obstruct the rear fans in any other way.
- Do not heat water or food in the unit chamber.
- Do not submerge the unit into any liquid.
- Do not store flammable products or solvents inside the unit chamber.
- If the unit is not operated in the manner as specified in this manual, the protection provided by the unit may be impaired.
- Pollution Degree: 2



**CAUTION: RISK OF DANGER! BURN HAZARD IS PRESENT WHEN COVER IS OPENED.
USE CAUTION AFTER OPENING COVER, BULBS AND METAL SURFACES MAY BE HOT!
USE HEAT RESISTANT GLOVES WHEN REMOVING BULBS!**

SYMBOL TABLE

	- Alternating current
	- On (Supply)
	- Off (Supply)
	- Caution, Hot Surface
	- Protective Conductor
	- Caution, Risk of Danger

TECHNICAL DATA:

ELECTRICAL RATINGS:

Model Number	Volts	Amps	Frequency	Watts
9494800	120V	12A	50 - 60Hz	1200W
9494801	220-240V	10A	50 - 60Hz	1200W
9494900	100V	12A	50 – 60Hz	1200W

DIMENSIONS:

Length: 510mm	(20.1")
Width: 366mm	(14.4")
Height: 385mm	(15.15")

WEIGHT:

120V: 25kg (55 lbs)

230V: 25kg (55 lbs)

OPERATING TEMPERATURE:

5°C – 40°C (41°F – 104°F)

FUSE:

Mains: F 250V 10A (2) – (230V only)

ACCESSORIES:

9494800/900

Bulb, Replacement (1 each)	905032
Filter (1 each)	905034

9494801

Bulb, Replacement (1 each)	905032
Filter (1 each)	905034
10A Fuse (Mains – 230V only)	9320069

INSTALLATION INSTRUCTIONS:

Shipping damage should be reported to the carrier as soon as detected.

The Unit Package contains the following:

- Owner & Operators Manual (this document)
- Eclipse Processing Unit w/Power Cord
- 2 Spare Bulbs
- Turntable
- Gloves (1pr.)
- 10A Fuse (2) - (230V only)
- 4.0A Fuse (1)

UNPACKING:

Save the box and other packing material for future use in transporting the unit.

- Open the box.
- Remove accessory kit.
- Carefully lift the unit from the box by lifting on packaging supports. Support unit from the bottom to prevent slipping.
- Remove packaging supports.
- Remove plastic bag.

INSTALLATION:

- Remove remaining packing material on outside of unit.
- Remove turntable from the top of unit.
- Lift unit from packing supports by metal base only. **DO NOT LIFT UNIT USING PLASTIC SIDE COVERS.**
- Carefully place the unit on a solid flat surface. Position the unit at least 10cm (4 in) from the wall or other structures to allow for good airflow.
- Connect unit to a grounded power source.
- Open door and install turntable onto motor shaft, match flat sides of shaft and turntable.

WARNING:

Never operate the Unit in close proximity to combustible materials or place materials on top of the unit.

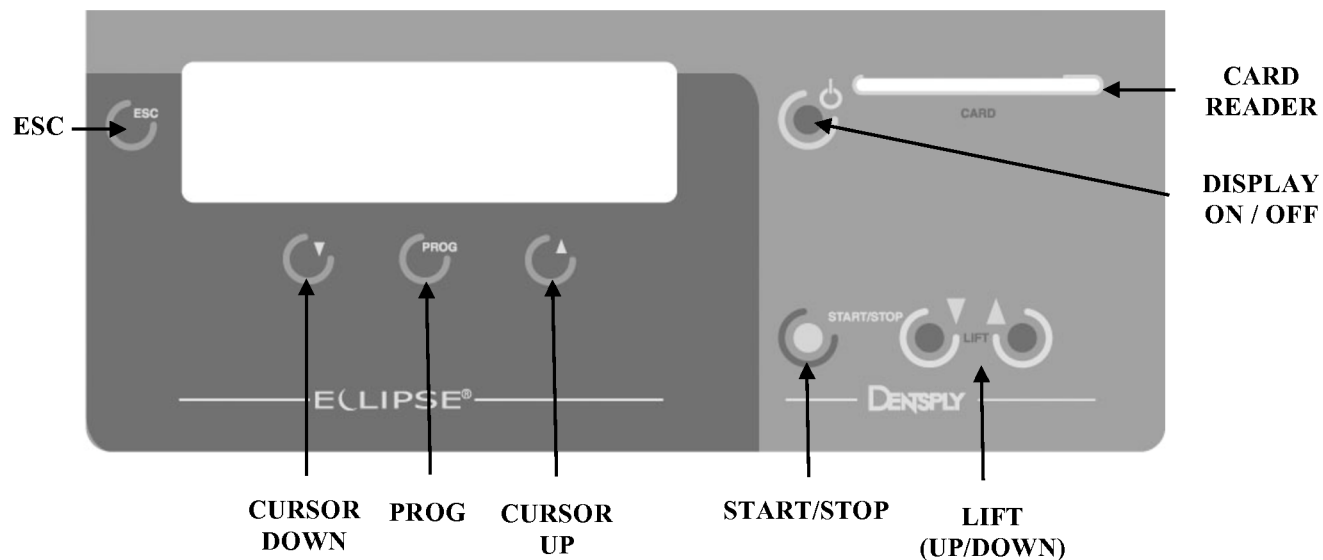
Do not use extension cords with this equipment.

Plug the power cord into a circuit rated a minimum of 15A (100V & 120V) and 10A (230V).

Do not position the unit in a way that blocks access to the power cord inlet socket or the wall outlet.

GENERAL OPERATION:

FUNCTION KEY DESCRIPTIONS:



ESC Key: Aborts changes, exits menus and clears errors on the screen.

CURSOR DOWN Key: Moves cursor on menu - down

PROG Key: To view process parameters.

CURSOR UP Key: Moves cursor on menu - up

START/STOP Key: START or STOP the selected process. Press once to confirm the process name, lamps used and cycle time. Press again to start the process.

LIFT (up & down) Keys: Raise and lower the work platform.

DISPLAY ON/OFF Key: Turns display ON & OFF. Unit is in standby when "OFF".



THIS DOES NOT DISCONNECT ELECTRICAL POWER. DO NOT ATTEMPT TO SERVICE THE UNIT. FIRST TURN OFF THE POWER SWITCH AT THE REAR OF THE UNIT AND UNPLUG THE UNIT FROM THE ELECTRICAL SOURCE.

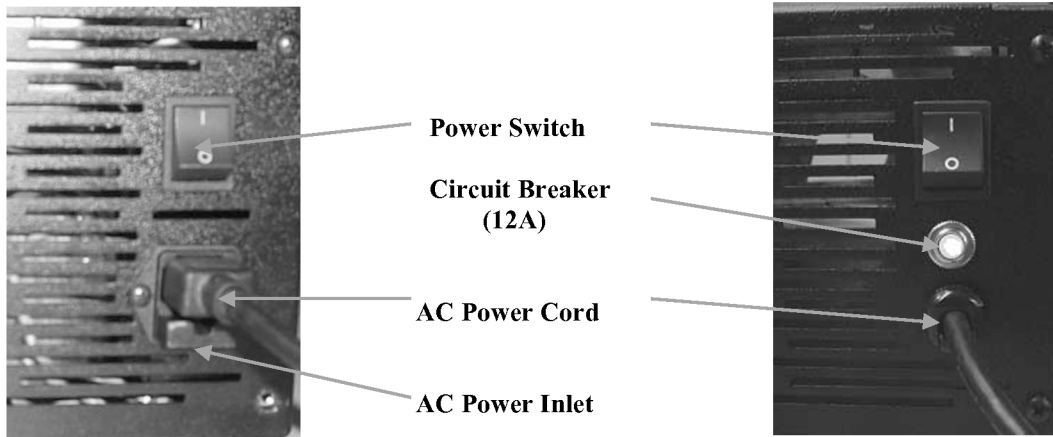
CARD READER: Used to load new material programs

GENERAL OPERATION: Cont.

POWER UP:

The power switch is located on the rear of the unit, as shown.

Turn the power switch to the ON position, as shown.



(230V UNIT)

(100V & 120V UNITS)

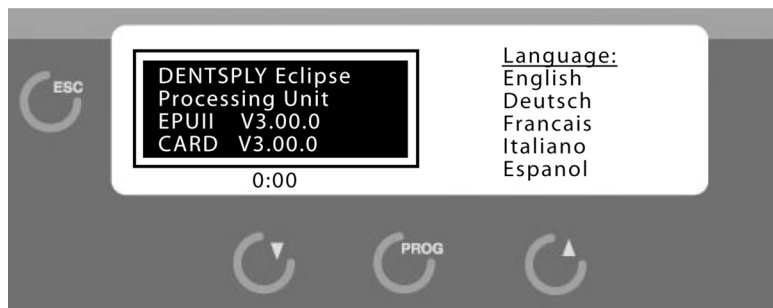
The display will turn on and a language screen will be displayed for a short period of time. This screen will change to the process menu automatically.

LANGUAGE SELECTION:

There are five languages available: English, German, French, Italian and Spanish.

The language selection screen can be accessed at power up or by pushing the ESC key once when viewing the process menu. If no selection is made within 5 seconds the unit will default to the process menu.

LANGUAGE SELECTION SCREEN

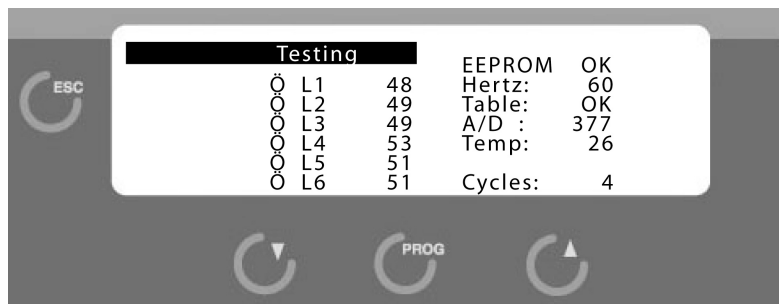


To select a language, use the Cursor Up & Cursor Down keys adjacent to the display within 5 seconds. Once the preferred language is highlighted, the 5 second timer will reset, wait 5 seconds to allow the unit to change to the process menu with the new language choice.

GENERAL OPERATION: Cont.

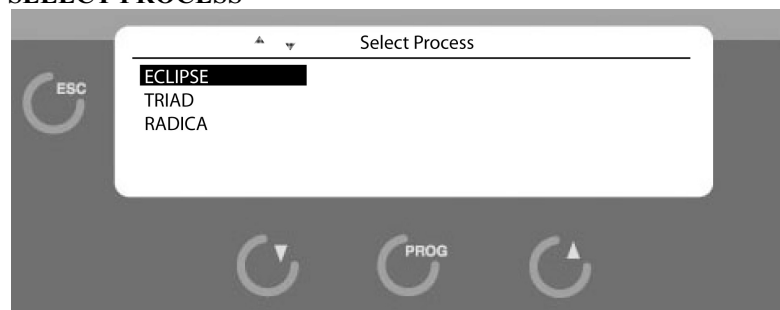
When the unit is turned on by means of the power switch a diagnostic test is performed to check the operation of key systems in the unit. The screen shown below will be displayed. If a problem exists an error will be displayed. Reference errors in the troubleshooting section of this manual.

INITIAL DIAGNOSTICS CHECK SCREEN (DOOR MUST BE CLOSED!)



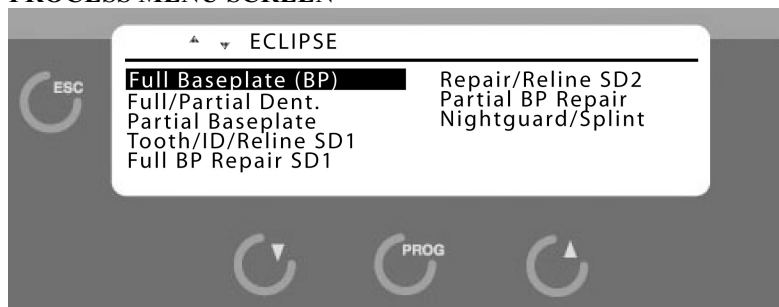
After a successful diagnostics test the process menu will be displayed.

SELECT PROCESS



Use up/down cursor keys to select process, press PROG.

PROCESS MENU SCREEN

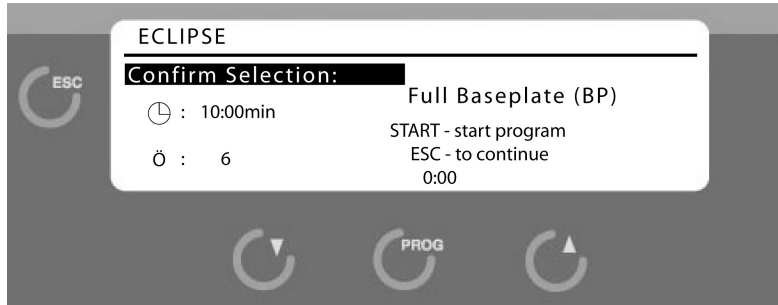


Use the up/down cursor keys to select a process, press PROG.

GENERAL OPERATION: Cont.

Once a process is selected, push the PROG key or the START/STOP key to confirm the Process Parameter Screen.

PROCESS PARAMETER SCREEN



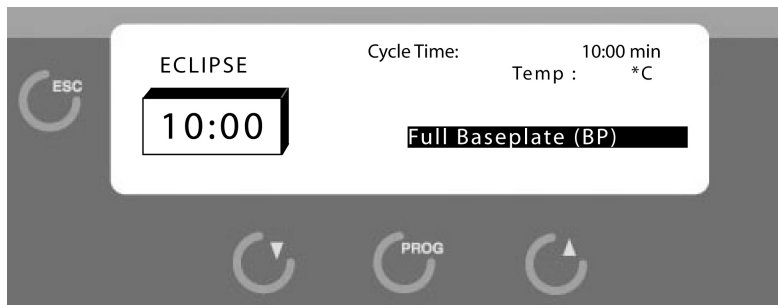
This screen shows the name of the process selected, the number of lamps used and its cycle time (excluding the 3 minutes of cooling time).

To return to the Process Menu press the ESC key or wait 15 seconds. The screen will return automatically to the main menu. A timer is displayed at the bottom of the screen indicating how much time is left to start the process.

To run this process the START/STOP key must be pushed again.

Once started, the running process screen is shown.

PROCESS RUNNING SCREEN



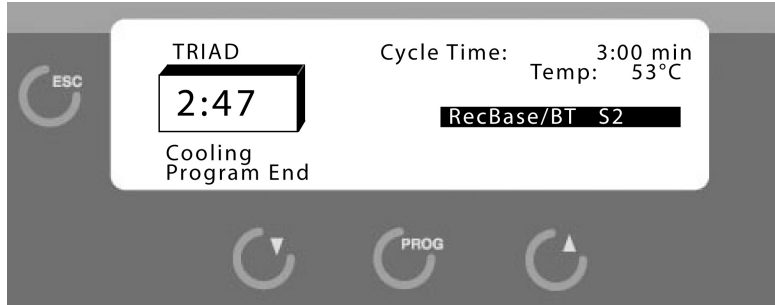
The process will run for the length of the processing time displayed. The unit will pause at end of process to check table rotation; a long beep indicates the start of the cooling phase. Remove the work and allow unit to cool.



CAUTION: Models may still be hot - Use caution when removing materials from chamber.

GENERAL OPERATION: *Cont.*

COOLING SCREEN

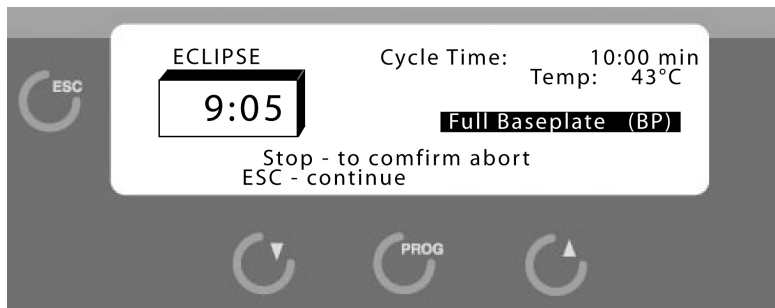


Once cooling is completed the display will return to the process menu. The last process used will again be highlighted on the process menu.

ABORT PROCESS:

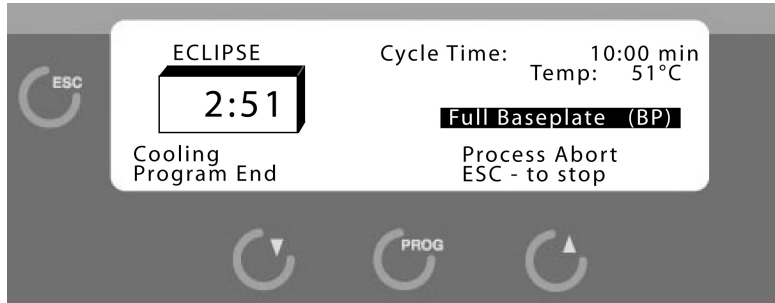
When the START/STOP key has been pressed during a process, the following screen is shown to confirm the aborting of the process.

ABORT PROCESS SCREEN




ESC cancels the abort command.

ABORT PROCESS COOLING SCREEN



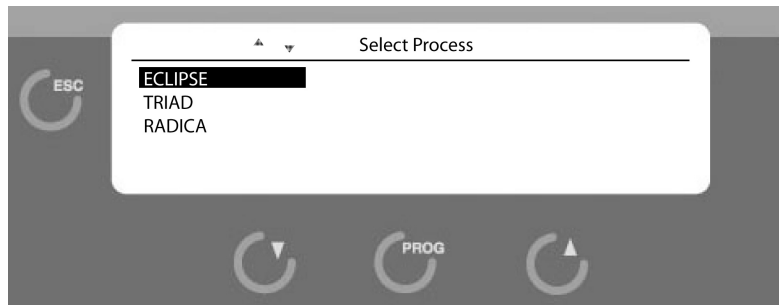
If START/STOP was pushed or the door was opened during the process, a long beep will be heard and the cooling screen above will be shown.

Remove work and allow the unit to cool.

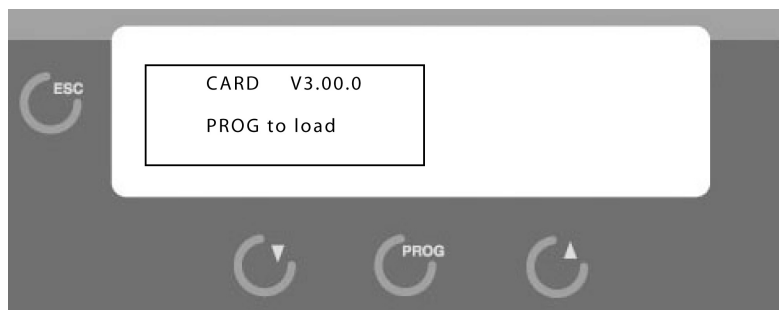
 **CAUTION: Models may still be hot - Use caution when removing materials from chamber.**

GENERAL OPERATION: *Cont.*

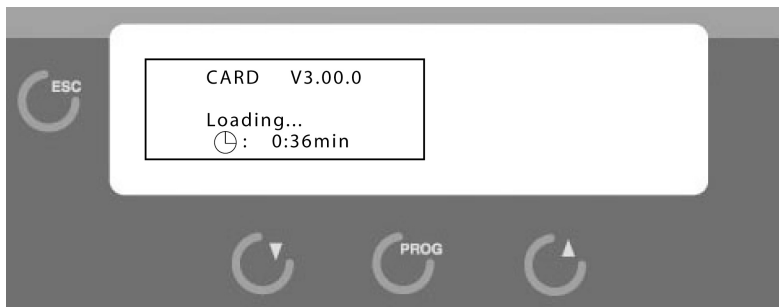
LOADING CARD PROGRAMS



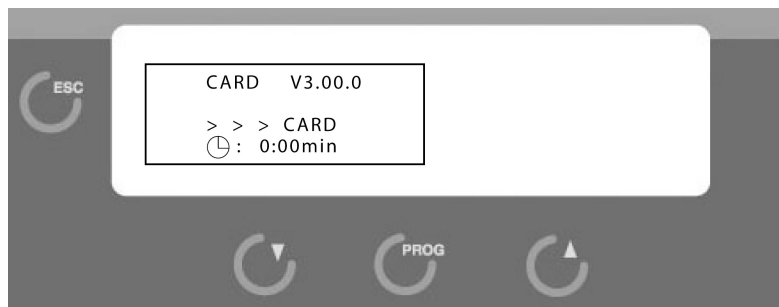
From this screen, insert card with label facing up.



Press the PROG key to load data.



Program loading.



Program loaded, remove card. Display will return to Select Process.

MAINTENANCE:

WARNING:

This equipment contains dangerous voltages. Maintenance and repair work should only be performed by an authorized service technician of DENTSPLY Prosthetics.

To keep the equipment in good working order you should follow the guidelines below.

- Examine the equipment regularly for mechanical damage.
- Make sure the lift is not obstructed in any way.
- Do not overload the table (11lb. max), this can cause the motor to turn slower and cause wear on the bearings.
- Do not use solvents or liquid cleaners on the control panel; they could enter the panel and cause damage.
- Do not attempt to manually force the lift when unit is powered up. This may result in motor damage.

CLEANING:

- Clean the unit at least once a week.
- Clean exterior surfaces with a soft, damp cloth using a mild detergent and water.
- **DO NOT IMMERSE IN WATER!**
- Clean the fan and exhaust vents, using low pressure compressed air, once a month or as needed to prevent overheating.

BULB AND FILTER REPLACEMENT: (USER MAINTENANCE)



CAUTION:

TURN OFF THE POWER SWITCH AND UNPLUG UNIT FROM WALL BEFORE PERFORMING ANY MAINTENANCE ON THE UNIT.

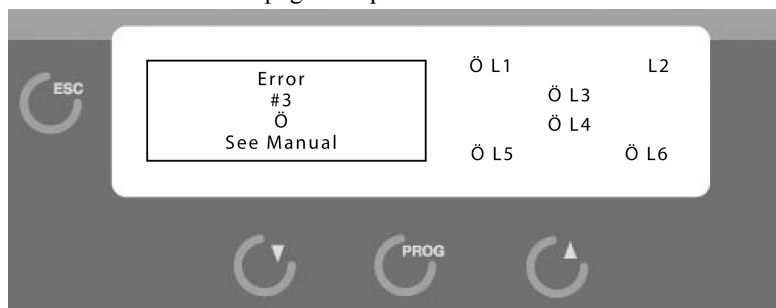


CAUTION:

RISK OF DANGER! BURN HAZARD IS PRESENT WHEN COVER IS OPENED. USE CAUTION AFTER OPENING COVER, BULBS AND METAL SURFACES MAY BE HOT! ALLOW TO COOL AT LEAST 15 MINUTES BEFORE CHANGING. USE HEAT RESISTANT GLOVES WHEN REMOVING BULBS!

NOTE: IT IS PREFERRABLE TO ALLOW THE UNIT COOL COMPLETELY BEFORE REPLACING BULBS TO ELIMINATE BURN HAZARDS.

When a lamp is burned out, its location number will flash on the display. In the picture below, L2 is burned out. Follow the instructions on the next page to replace it with a new one. **ABSOLUTELY NO SUBSTITUTE BULBS ALLOWED.**



MAINTENANCE: Cont.

1. Turn the power switch OFF.



2. Unplug the power cord (230V Shown).
For 100V & 120V unplug from the wall.



3. Loosen two screws on rear of top panel.



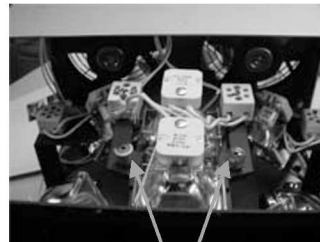
4. Slide top panel backwards until full access to bulbs is achieved.



5. Put supplied gloves on hands.



6. Loosen center bulb bracket retaining screws, if needed, for bulb clearance.



Front of unit



Loosen 2 screws by hand.

⚠ Failure to wear gloves could cause premature lamp failure due to skin oils.

7. Place center bulb bracket in slots on left side of internal cover. Be careful not to remove the filters in the bracket. Do not touch the filters with bare hands, handle with gloved hands only. If filters are being replaced, the filters have a frosted side and a shiny side. The frosted side should be placed toward the lamp. **ABSOLUTELY NO SUBSTITUTE FILTERS MAY BE USED.**



Frosted Side UP!

MAINTENANCE: Cont.

8. Push the bulb release lever far enough to loosen the bulb from the socket.



9. Remove bulb.



10. **IMPORTANT!** Return the bulb release lever to forward position.



11. Insert new bulb. Retaining spring should slide over bulb.



12. Reinstall the center bulb bracket, tighten retaining screws.



Tighten 2 screws

13. Close cover, secure with 2 screws.



14. **Plug unit in** (230V Shown).
For 100V & 120V unplug from the wall.



15. **Turn on power switch.**



MAINTENANCE: Cont.

FUSE REPLACEMENT (220-240V UNITS ONLY):

Mains - located in the rear of the unit inside the inlet socket.

1. Turn the power switch OFF



2. Unplug the unit.



3. Remove fuse drawer from inlet socket (contains 2 fuses) using small screwdriver to push on the locking clip.



4. Remove fuse drawer.



5. Replace fuse(s) with the F 250V 10.0A fuse(s) (supplied).

6. Push fuse drawer into inlet socket until the clip locks.

7. Plug Unit in.



8. Turn on Power Switch.



TROUBLESHOOTING:

NO TABLE ROTATION OR TABLE IS NOT IN THE DOWN POSITION AT THE START OF THE PROCESS.

Error
#1
Turntable
ESC - continue

ERROR 1

Indicates table rotation was not detected, or table is not in the down position at start of menu.

Make sure the table handle is pushed completely forward and the lift is in the DOWN position, then push ESC. If the lift is still elevated, turn OFF the unit, open the door and gently push the table down to the stop position. Turn the unit ON.

Call DENTSPLY service department if problem persists.

OVER TEMPERATURE

Error
#2
Temperature
See Manual

ERROR 2

The temperature of the unit has exceeded the maximum temperature allowed.

- Turn unit off then on.
- Check blower operation.
- Check fan operation.

Call DENTSPLY service department if problem persists.

BULB FAILURE

Error
3
Ö
See Manual

ERROR 3

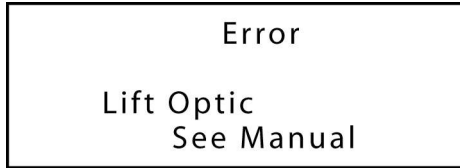
One or more bulbs failed.

- The bulb layout seen on the display is the same as arranged in the unit, as viewed from the top.
- The failed bulb will blink on the display.
- Follow the bulb replacement procedure.

Call DENTSPLY service department if problem persists.

TROUBLESHOOTING: Cont.

LIFT OPTICS

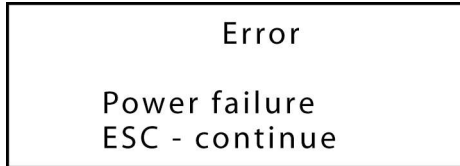


The horizontal light beam was not detected to stop lift.

- Make sure that nothing is obstructing the lift and the lift in the down position.

Call DENTSPLY service department if problem persists.

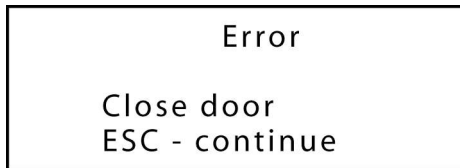
POWER FAILURE



AC line power was lost during a process.

- Push ESC to return to the main menu.

CLOSE DOOR



START/STOP was pushed with the door open.

- Once the door is closed the display will return to the process menu screen.
- If the door is closed, the door switch may be malfunctioning,

Call DENTSPLY service department if problem persists.

PRODUCT SERVICE:

WARNING:

This equipment is designed with safety features to protect the operator and must not be modified in any form. Only qualified individuals should repair this piece of equipment. Failure to observe these precautions may result in burns or electrical shock.

Three methods of product service are available:

- Telephone assistance available at the number listed below,
- Return the unit for servicing using the instructions below,
- Call DENTSPLY at the phone number below and obtain a service manual for a nominal fee

BEFORE RETURNING THE UNIT:

- Call DENTSPLY for an PR number. This is used to track and identify your unit. Equipment received without this number may not be identifiable.
- Equipment damaged in shipment as a result of improper packing may not be paid by the carrier.

DENTSPLY will not be responsible for damages resulting from improper packing.

Ship prepaid to:

DENTSPLY Prosthetics

ATTN: Equipment Repair

PR Number _____

470 West College Ave.

York, PA 17401 USA

Phone: 800.835.6639 Option #1 (US Customers)

717.849.4502 (International Customers)

Fax: 717-849-4238

Email: YorkPa-Prosthetics-Equipment-Repair@dentsply.com

Our European Representative is:

DeguDent GmbH

Rodenbacher Chaussee 4

D-63457 Hanau-Wolfgang

Germany

Phone +49 6181 59 57 59

Fax +49 6181 59 59 62

Disposing of the device:

The device is an electronic device according to the “Act Governing the Sale, Return and Environmentally Sound Disposal of Electrical and Electronic Devices” (ElektroG).



It was identified in accordance with the existing law and provided with this symbol.

The device is not intended for private use. It is manufactured and delivered for commercial use and is to be disposed by the end user according to the specifications of the Electrical and Electronic Equipment Act – ElektroG.

DECLARATION OF CONFORMITY:

DENTSPLY
PROSTHETICS



DECLARATION OF CONFORMITY

Manufacturer: Dentsply Prosthetics
570 W. College Ave.
York, PA 17401 USA

Product Name: Eclipse Processing Unit (EPU II)

Description: Light Cure Material Processing System

Type: Laboratory Equipment

Model Number: 9494801

Serial Numbers: JJA/JJE xxxx-xxx (Where x is a number from 0-9)

The equipment which accompanies this declaration is in conformity with EU Directive(s):-

- **2006/95/EC** Low Voltage Directive
- **2004/108/EC** Electromagnetic Compatibility Directive
- **2008/35/EC** RoHS Directive
- **2008/34/EC** WEEE Directive

Implemented through our EU Representative:

Degudent GmbH

Rodenbacher Chaussee 4

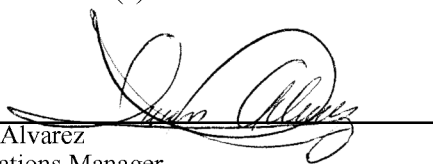
D-63457 Hanau-Wolfgang Germany

Phone +49 6181 59 57 59

The following harmonized standards have been used:-

- **EN 61010-1:2001** *Safety requirements for electrical equipment for measurement, control and laboratory use. General requirements*
- **IEC 61010-2-010:2003** *Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of material*
- **IEC 61326-1:2005** *Electrical equipment for measurement, control and laboratory use EMC requirements Part 1: General requirements*

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).


Juan Alvarez
Operations Manager
Dentsply Prosthetics
York, PA USA

23 May 2012

This image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, leaving small margins at the top and bottom. There are no vertical margin lines or other markings on the page.

WARRANTY:

WARRANTY: Except with respect to those components parts and uses which are hereinafter described, DENTSPLY Prosthetics warrants this furnace to be free from defects in material and workmanship for a period of one year from the date of sale. DENTSPLY Prosthetics' liability under this warranty is limited solely to repairing or, at DENTSPLY Prosthetics' option, replacing those products included within the warranty which are returned to DENTSPLY Prosthetics within the applicable warranty period (with shipping charges prepaid), and which are determined by DENTSPLY Prosthetics to be defective. This warranty shall not apply to any product which has been subject to misuse; negligence; or accident; or misapplied; or modified; or repaired by unauthorized persons; or improperly installed.

INSPECTION: Buyer shall inspect the product upon receipt. The buyer shall notify DENTSPLY Prosthetics in writing of any claims of defects in material and workmanship within thirty days after the buyer discovers or should have discovered the facts upon which such a claim is based. Failure of the buyer to give written notice of such a claim within this time period shall be deemed to be a waiver of such claim.

DISCLAIMER: The provisions here-in stated DENTSPLY Prosthetics sole obligation and exclude all other remedies or warranties, expressed or implied, including those related to *MERCHANTABILITY* and *FITNESS FOR A PARTICULAR PURPOSE*.

LIMITATION OF LIABILITY: Under no circumstances shall DENTSPLY Prosthetics be liable to the buyer for any incidental, consequential or special damages, losses or expenses.

LIMITATION OF ACTIONS: The buyer must initiate any action with respect to claims under the warranty described in the first paragraph within one year after the cause of action has accrued.

Corporate and Sales Office:

DENTSPLY Prosthetics
DENTSPLY International
570 West College Avenue
York, PA 17401 USA
PH: 800.243.1942
FAX: 800.630.2894
prosthetics.dentsply.com

Product Service Office:

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York, PA 17401 USA
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717.849.4502 (International Customers)
FAX: 717-849-4238
Email: **YorkPa-Prosthetics-Equipment-
Repair@dentsply.com**



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